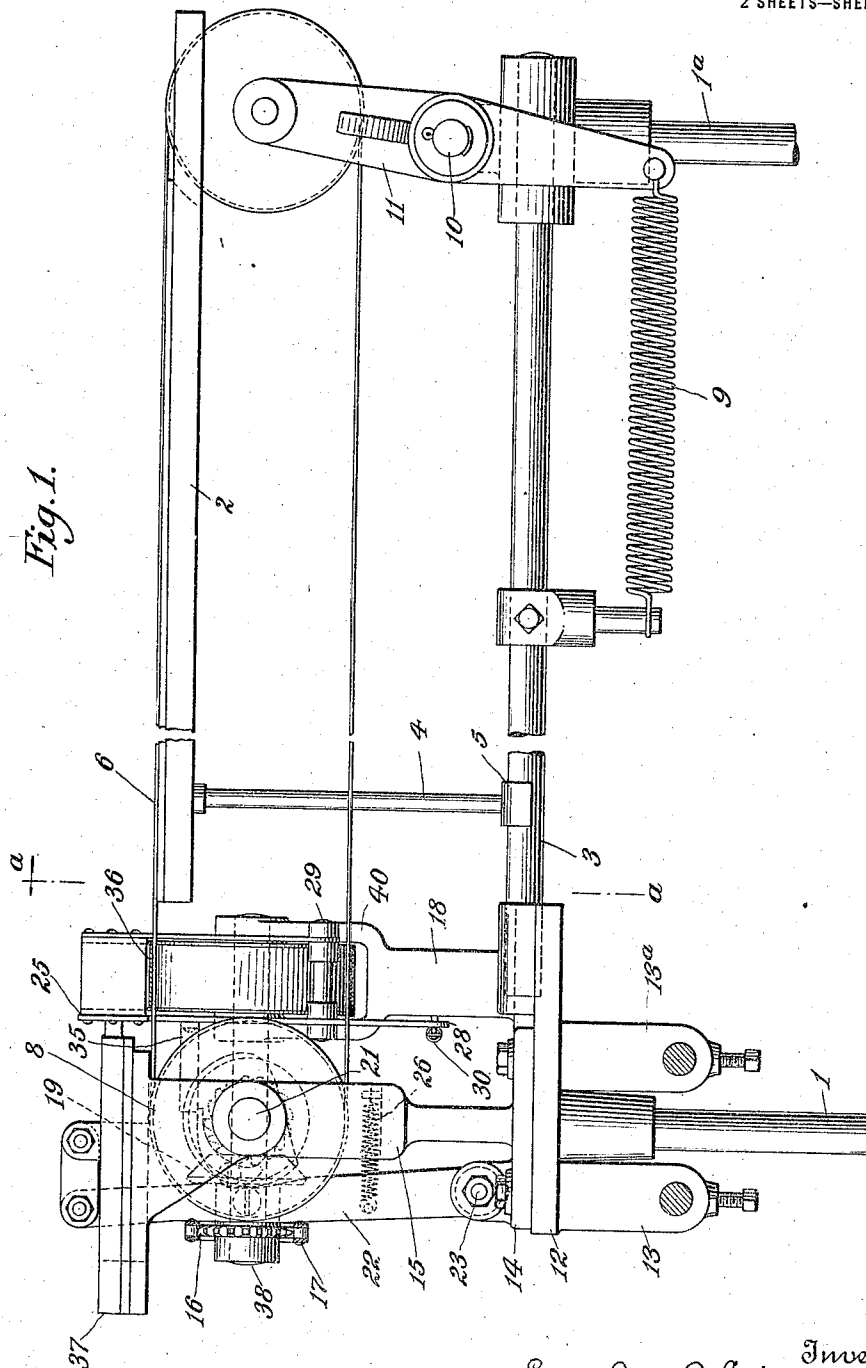


L. W. BLEIER.
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APPLICATION FILED SEPT. 15, 1916.

1,306,328.

Patented June 10, 1919.

2 SHEETS—SHEET 1.



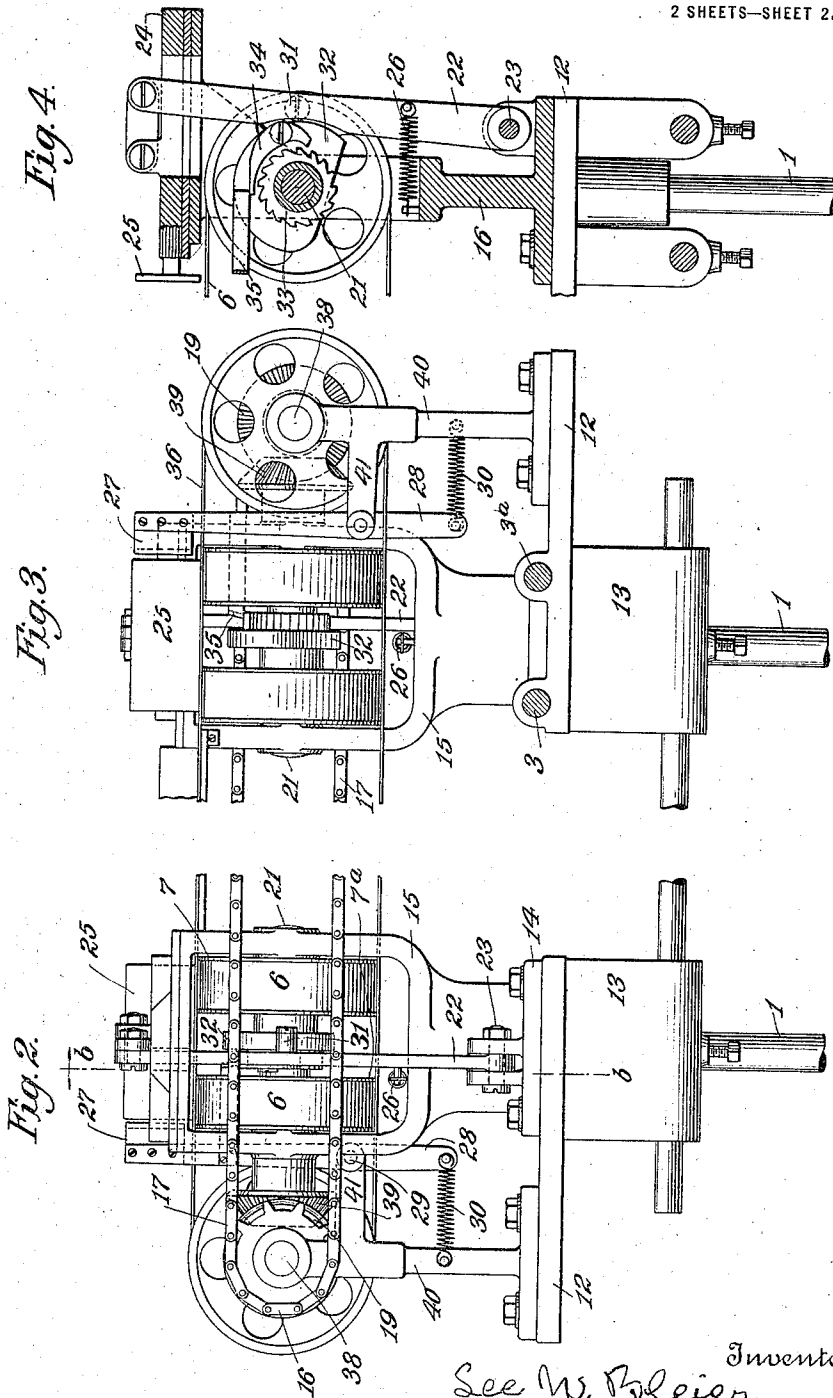
Lee M. Bleier Inventor
By *James C. Galloway* Attorney

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Inventor
See W. Bleier
By *James H. Barlow* Attorney

UNITED STATES PATENT OFFICE.

LEE W. BLEIER, OF NEW YORK, N. Y.

CARRIER-MACHINE.

1,306,328.

Specification of Letters Patent.

Patented June 10, 1919.

Application filed September 15, 1916. Serial No. 120,245.

To all whom it may concern:

Be it known that I, LEE W. BLEIER, a citizen of the United States, residing in the borough of Manhattan, city, county, and State of New York, have invented a certain new and useful Improvement in Carrier-Machines, of which the following is a specification, reference being had to the accompanying drawings, which form a part of the same.

A principal object of my invention is to provide a machine for the purpose of receiving and carrying commodities and particularly receiving commodities carried to the machine by carrier belts from another machine in which some operation has been performed on such commodity, such as cutting or any other operation to which the article may have been subjected, and carrying the same to some other convenient point such as the place intended for wrapping or packing the same.

Another object of my invention is to provide means for transferring commodities from one belt to another belt running transversely of the first named belt.

Another object is to provide means for automatically shifting the commodity from one belt or set of belts to the other belt or set of belts, said shifting means being set in motion by the commodity to be shifted.

Other objects will be apparent from this specification and drawings.

In the drawings—

Figure 1 is a vertical longitudinal view of my machine;

Fig. 2 is an end view of my machine showing the operating mechanism;

Fig. 3 is a view taken along the line *a—**a* of Fig. 1 looking in the direction of the arrow; and

Fig. 4 is a cross section of Fig. 2 taken along the line *b—b* looking in the direction of the arrow.

Referring now in detail to the drawings, 1—1^a represents standards of any convenient design upon which the machine rests. Upon these standards are fitted the table 12 and the bars 3—3^a as shown. Supported by the bars 3—3^a is a span 5 carrying a support 4 upon which rests the table 2, this table being otherwise supported in any convenient manner.

On the table 12 I have provided a pedestal 15 having a base 14 through which it is bolted to said table 12. This pedestal 15 has a

bifurcated portion and carries therein a shaft 21 upon which is mounted to travel therewith the receiving belt carrier pulleys 7—7^a. This shaft is operated by the sprocket chain 17, from a source of power not shown, over the sprocket wheel 16 upon the shaft 38 which has splined thereto the bevel gear 19 which meshes with the bevel gear 39 splined to the shaft 21. On this shaft 21 is also splined the ratchet wheel 33. It will be seen that upon the operation of the sprocket wheel 16, the bevel gears 19 and 39 and the receiving belt pulleys 7—7^a and the ratchet wheel 33 are designed to run in unison. The shaft 38 is supported by the pedestal 40 which also is secured to the table 12 as shown. This pedestal 40 is provided with an arm 41 extending therefrom and has pivoted therein the rocking lever 28. This rocking lever is provided at its upper end with a projection 27 against which the commodity traveling on the delivery belt 36 presses the spring 30 mounted between the stationary pedestal 40 and the opposite end of the rocking lever 28 is actuated by said commodity pressing against the projection 27 and tends to draw the same back into the original position shown in Fig. 3. This rocking lever 28 is provided with a locking arm 35 which is adapted to move with the rocking of the lever into and out of contact with the pawl 34 which controls the operation of the cam 32 which is adapted to run free on the shaft 21. In the position shown in Fig. 4 the locking arm 35 is holding the cam 32 in stationary position and is also holding the spring pressed pawl 34 out of engagement with the ratchet wheel 33. This corresponds to the position shown in Fig. 3. Upon the commodity bearing against the projection 27 the rocking lever 28 is pressed against the tension of the spring 30 and the locking arm 35 is withdrawn from operative position with the pawl 34, which pawl engages with the moving ratchet wheel 33 and is carried thereby for a revolution, when the rocking lever 28 falls into its original position together with its concomitant arm 35, again locking the cam 32 and pressing the pawl 34 out of engagement with the ratchet wheel 33.

Supported on the base 14 is also the lever 22 which is adapted to oscillate on the pivot 23. On the other end of this lever 22 is mounted a slide or carriage 24 which operates in suitable guideways 37 which are sta-

tionary in the frame of the machine. This slide is provided with a pusher 25 which is adapted to travel with said slide and also transversely of the moving delivery belt 36, transferring any commodity on said belt within the path of said pusher onto the receiving belt 6. The operating and timing of the slide 24 is controlled by the cam 32, and the spring 26 which draws the roller 31 on said lever 22 against the periphery of said cam and in the revolution of said cam carries the pusher across said delivery belt 36 returns the slide and its concomitant pusher back to original position where it is locked by the action of locking arm 35 until it is again released by a commodity pressing against the projection 27 of lever 22.

In the above description and the accompanying drawings I have shown the preferable embodiment of my invention but I do not wish to be confined to the disclosure therein contained but what I desire to cover by Letters Patent is set forth in the appended claims.

25 Claims:

1. In a carrier machine, a delivery belt suitably mounted and adapted to feed commodities, a receiving belt with suitable mounting means including a pulley, said receiving belt being positioned immediately below and transversely of the delivery belt; means for operating said respective belts in directions transverse to each other; a rocking lever suitably mounted and adapted at one end to project into the pathway of commodities carried by the delivery belt, and to be rocked by said commodities, a shaft suitably connected with power carrying the aforesaid pulley for the receiving belt, and adapted to control the operation of said receiving belt, a ratchet wheel mounted on and adapted to move with said shaft, a cam mounted on said shaft, but adapted to be free from the operation thereof, a pawl pivoted to said cam, and adapted to engage with said ratchet wheel, a locking arm controlled by the aforesaid rocking lever adapted to lock said pawl out of engagement with said ratchet wheel and thus hold said cam stationary on the aforesaid shaft; an oscillating lever pivoted at one end and having a carriage at the other end and means for normally drawing said lever against the periphery of the aforesaid cam; a pusher on said carriage, adapted to travel transversely of the delivery belt and carry with it any commodity in its path and deliver the same onto the receiving belt.

2. In a carrier machine, a delivery belt suitably mounted and adapted to feed commodities, a receiving belt with suitable mounting means including a pulley, said receiving belt being positioned immediately below and transversely of the delivery belt; means for operating said respective belts in

directions transverse to each other; a rocking lever suitably mounted and adapted at one end to project into the pathway of commodities carried by the delivery belt, and to be rocked by said commodities, a shaft suitably connected with power carrying the aforesaid pulley for the receiving belt, and adapted to control the operation of said receiving belt, a ratchet wheel mounted on and adapted to move with said shaft, a cam mounted on said shaft, but adapted to be free from the operation thereof, a pawl pivoted to said cam, and adapted to engage with said ratchet wheel, a locking arm controlled by the aforesaid rocking lever adapted to lock said pawl out of engagement with said ratchet wheel and thus hold said cam stationary on the aforesaid shaft; an oscillating lever pivoted at one end and having a carriage at the other end and means for normally drawing said lever against the periphery of the aforesaid cam; and moving said carriage transversely of the delivery belt.

3. In a carrier machine, a delivery belt suitably mounted and adapted to feed commodities, a receiving belt with suitable mounting means including a pulley, said receiving belt being positioned immediately below and transversely of the delivery belt; means for operating said respective belts in directions transverse to each other; a rocking lever suitably mounted and adapted at one end to project into the pathway of commodities carried by the delivery belt, and to be rocked by said commodities, a shaft suitably connected with power carrying the aforesaid pulley for the receiving belt, and adapted to control the operation of said receiving belt, a ratchet wheel mounted on and adapted to move with said shaft, a cam mounted on said shaft, but adapted to be free from the operation thereof, a pawl pivoted to said cam and adapted to engage with said ratchet wheel, means adapted to lock said pawl out of engagement with said ratchet wheel and thus hold said cam stationary on the aforesaid shaft; an oscillating lever pivoted at one end and having a carriage at the other end and means for normally drawing said lever against the periphery of the aforesaid cam and moving said carriage transversely of the delivery belt.

4. In a carrier machine, a delivery belt suitably mounted and adapted to feed commodities, a receiving belt with suitable mounting means including a pulley, said receiving belt being positioned immediately below and transversely of the delivery belt; means for operating said respective belts in directions transverse to each other; a rocking lever suitably mounted and adapted at one end to project into the pathway of commodities carried by the delivery belt, and

and to be rocked by said commodities, a shaft suitably connected with power carrying the aforesaid pulley for the receiving belt, and adapted to control the operation of
5 said receiving belt, a ratchet wheel mounted on and adapted to move with said shaft, a cam mounted on said shaft, but adapted to be free from the operation thereof, a pawl pivoted to said cam and adapted to engage
10 with said ratchet wheel, a locking arm controlled by the aforesaid rocking lever adapted to lock said pawl out of engagement with said ratchet wheel and thus hold said cam stationary on the aforesaid shaft; and
15 means controlled by said cam for shifting commodities from the delivery belt to the receiving belt.

5. In a carrier machine, a pulley, a shaft for said pulley, a ratchet wheel mounted on and adapted to move with said shaft, a cam 20 mounted on said shaft, but adapted to be free from the operation thereof, a pawl pivoted to said cam and adapted to engage with said ratchet wheel, a rocking lever, and a locking arm controlled by the aforesaid 25 rocking lever adapted to lock said pawl out of engagement with said ratchet wheel and thus hold said cam stationary on the aforesaid shaft.

LEE W. BLEIER.

Witnesses:

JACOB TANNENBAUM,
E. C. McCORMACK.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."